

The completion of surgery



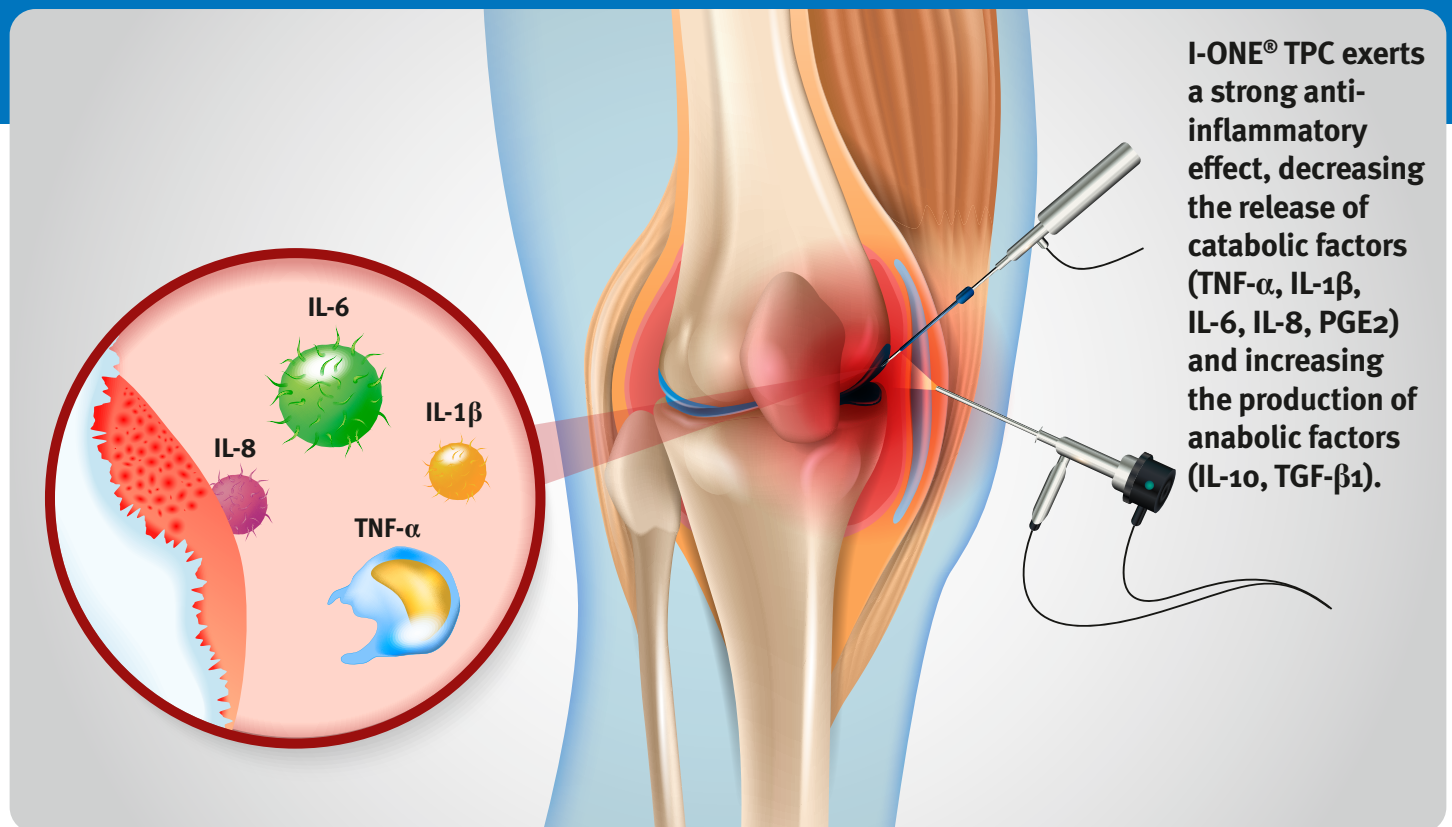
I-ONE[®] TPC

ICEA[®]
CLINICAL BIOPHYSICS

I-ONE[®] TPC

The completion of surgery

Surgery, even if minimally invasive, generates a strong **LOCAL INFLAMMATORY REACTION** that can affect tissue healing, causing pain to become chronic and compromising the **RESULT OF THE SURGERY**.



Actions of I-ONE[®] TPC:

1

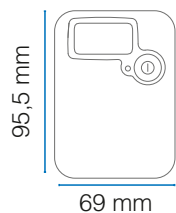
ANTI-INFLAMMATORY ACTION ON PERIARTICULAR TISSUES

2

ANABOLIC ACTION ON CARTILAGE

3

OSTEOGENETIC ACTION ON SUBCHONDRAL BONE



»PORTABLE DEVICE«

Sites treatable with I-ONE® TPC



Single-patient device

The device is packaged in a sealed blister and all components in contact with the patient are disposed of at the end of the therapy cycle.



Patented

A biophysical signal covered by international patents makes I-ONE® TPC **unique** and **not reproducible**.



Safety

The therapy parameters are preset by IGEA and cannot be modified by the patient, in compliance with the current legislation. To ensure safety, efficacy and simplicity of use, I-ONE® therapy is **operated with a single button (on/off)**.



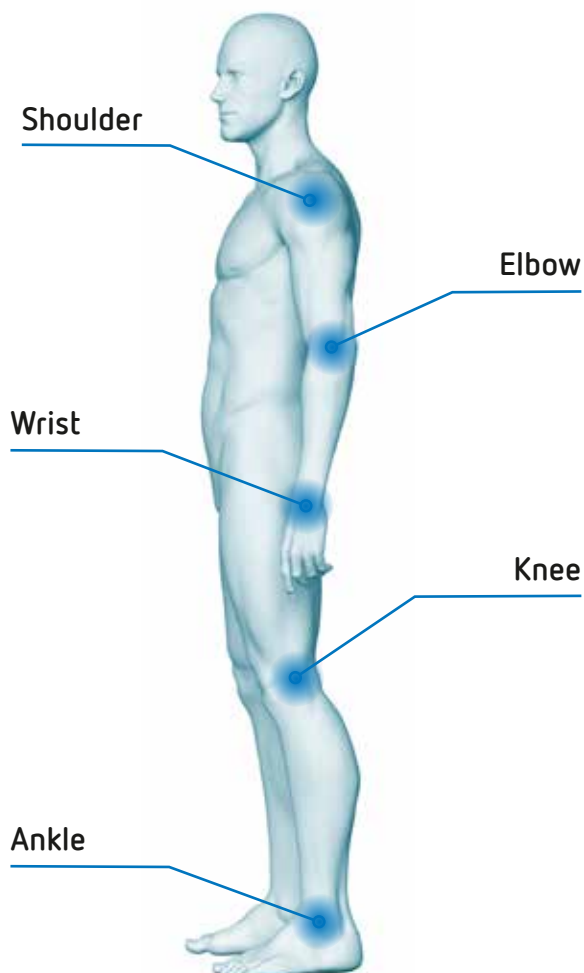
Compliance

A **light, flexible and ergonomic** coil guarantees the best possible freedom of movement.



Efficacy

Similarly to a pharmacological therapy, the efficacy of the therapy is guaranteed by a homogeneous and correct distribution of the biophysical signal in the area to be treated.



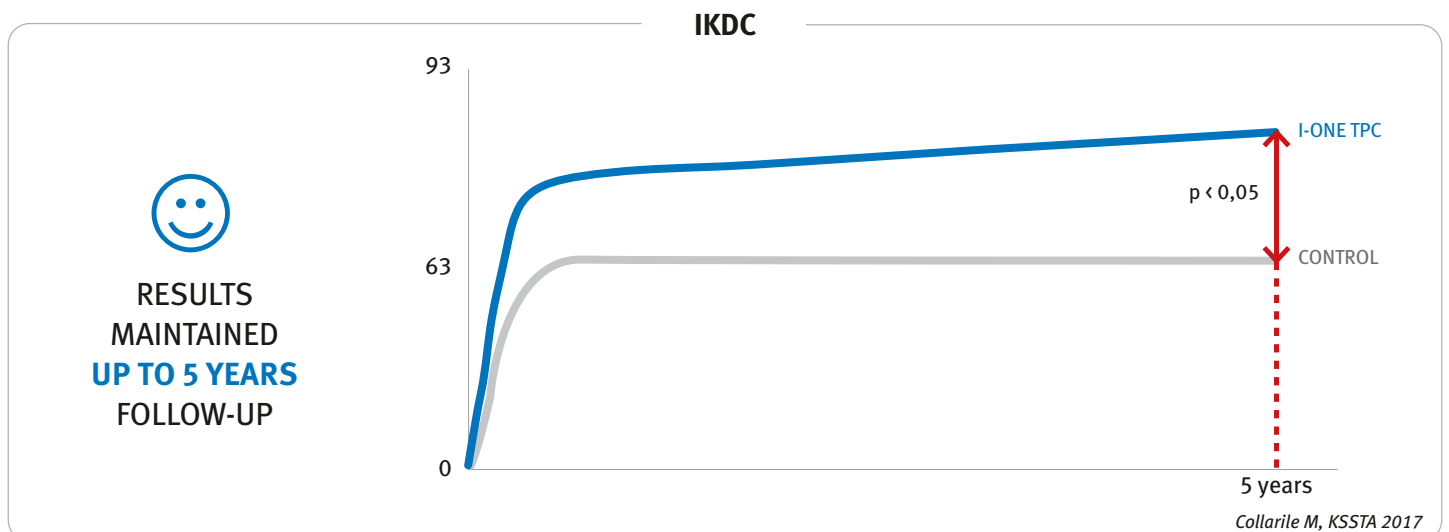
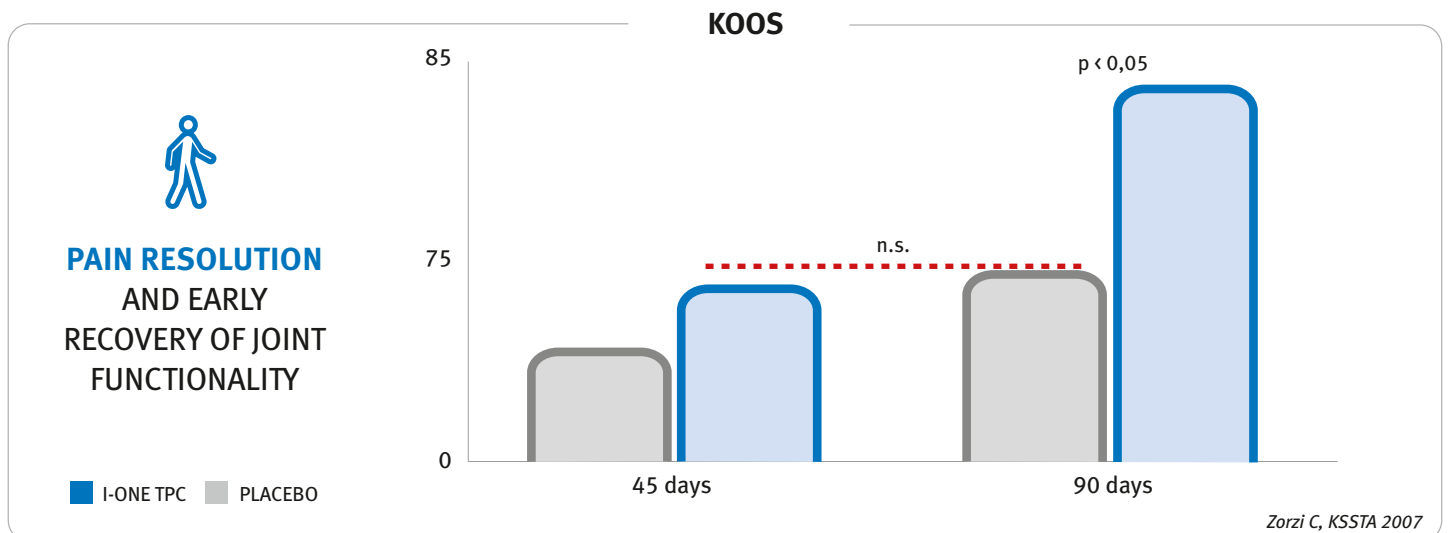
Post cartilage surgery

The joint microenvironment is a fundamental variable for the success of all surgical techniques of reparative or regenerative medicine. Inflammation has a strong impact on the degradation and survival of the new tissue, influencing the success of the surgery.

I-ONE® TPC

- Creates an environment conducive to the success of different surgical techniques.
- Preserves the quality of the cartilage and the survival of the subchondral bone.
- Maintains the extracellular matrix intact and inhibits the release of catabolic factors.

Chondral and osteochondral lesions



The effectiveness of I-ONE® TPC is independent of the restorative or regenerative medicine technique used.

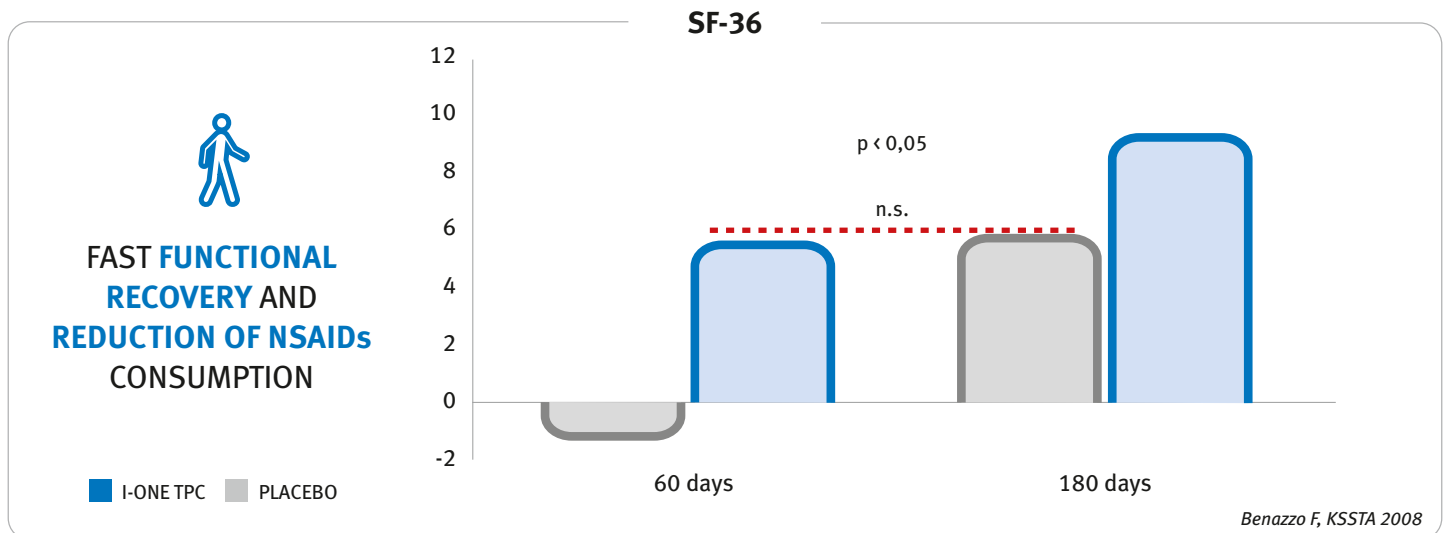
Post ligament surgery

Functional recovery of the limb can be hampered by pain and swelling. If not properly treated, they can lead to an incomplete return to sports activity.

I-ONE[®] TPC

- Controls the joint inflammatory process.
- Resolves pain symptoms in a short time.
- Enhances Range Of Motion.

ACL reconstruction + meniscectomy

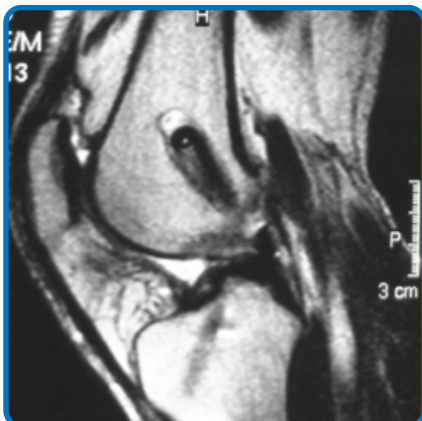


CLINICAL CASE



PATIENT STIMULATED WITH I-ONE[®] TPC

Total absence of intra-articular effusion

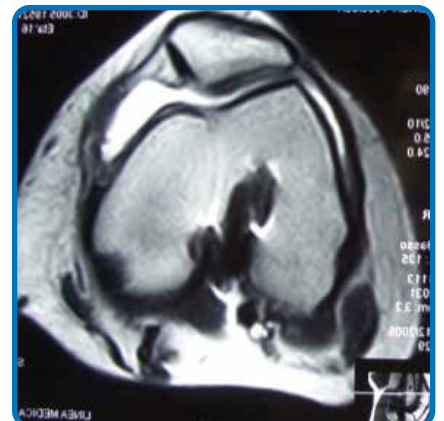


MRI 6 months after surgery



PATIENT PLACEBO GROUP

Presence of intra-articular effusion



MRI 6 months after surgery

Courtesy of Dr. G. Zanon

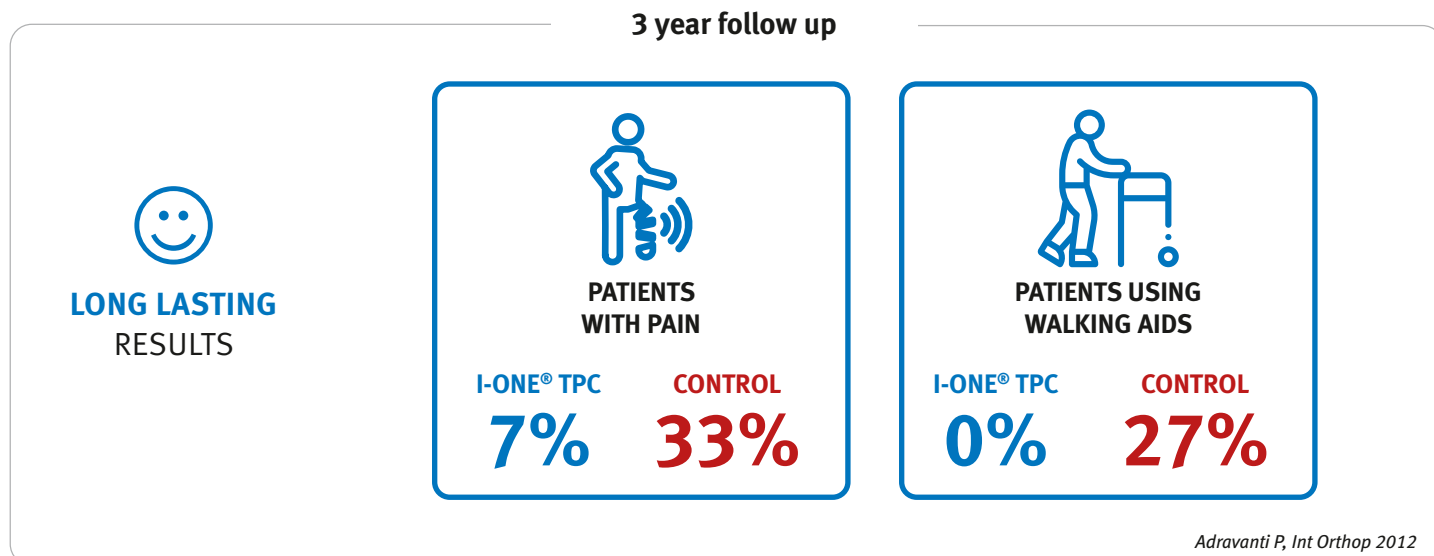
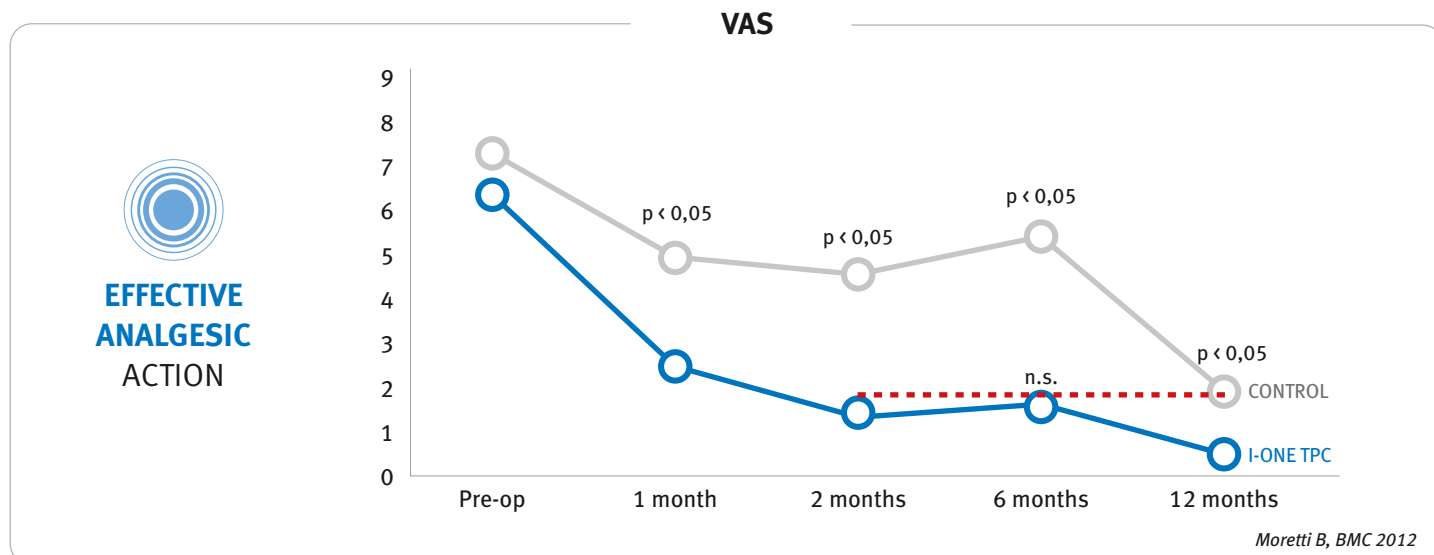
Post prosthetic surgery

The persistence of post-operative pain represents a problem which can lead to chronic pain in over 20% of patients, even after many years.

I-ONE[®] TPC

- Inhibits the inflammatory process of the periarticular tissues.
- Effectively controls pain and prevents it from becoming chronic.
- Promotes full functional recovery, maintaining the result over time.

Knee arthroplasty



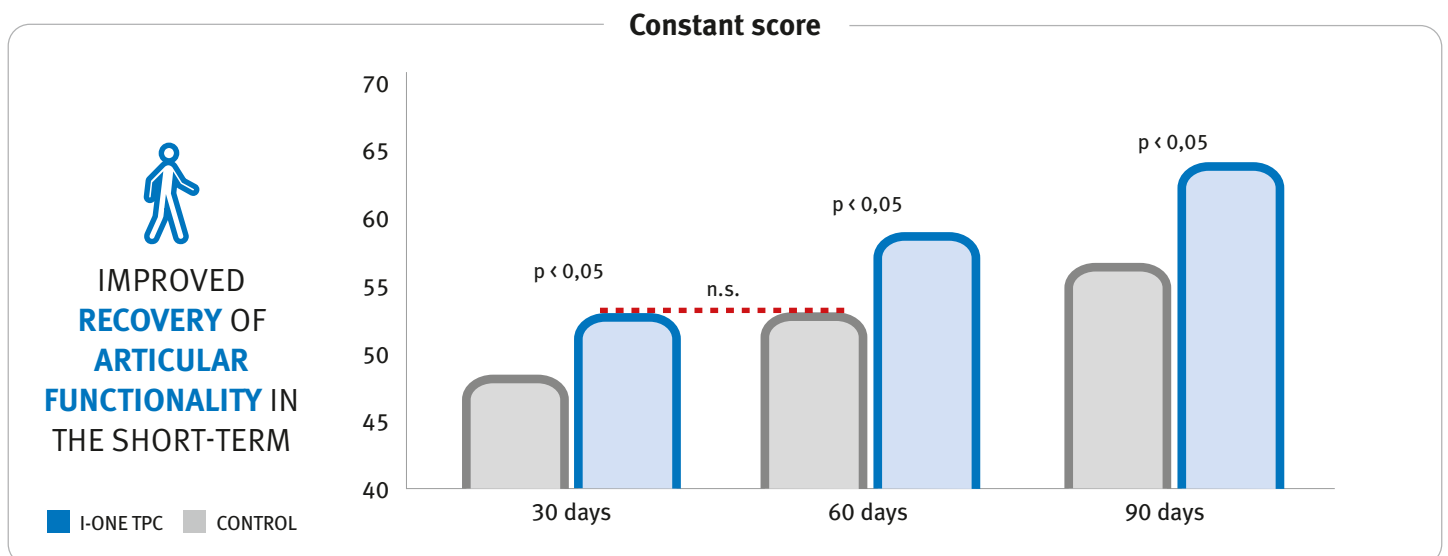
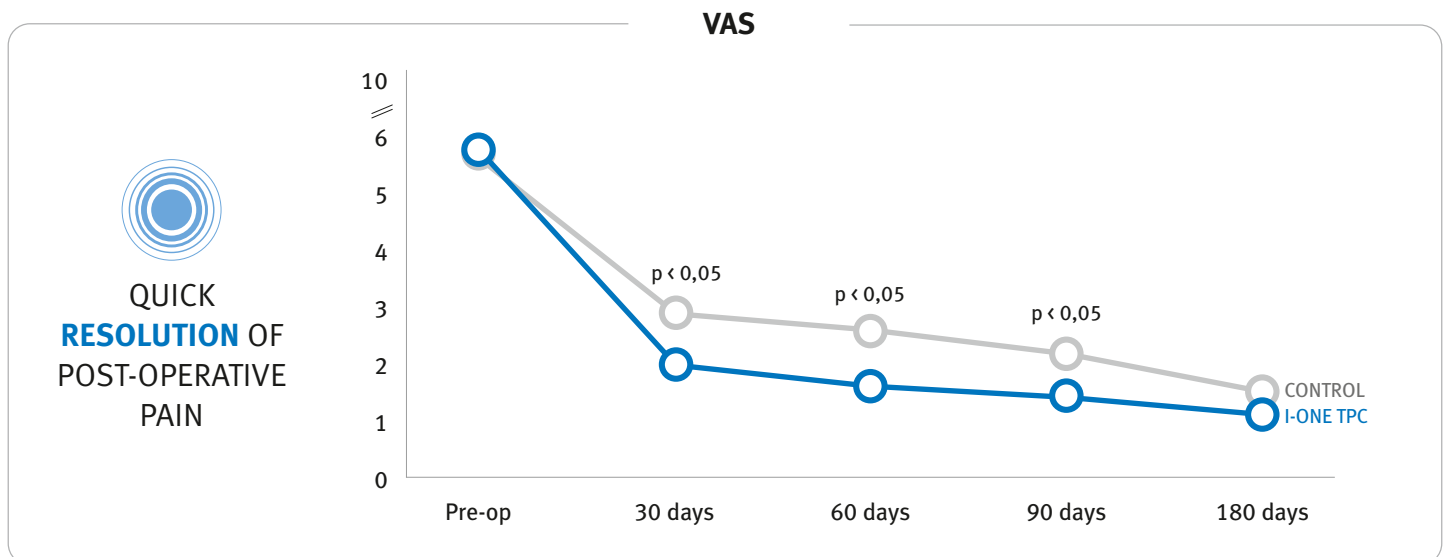
Post prosthetic surgery

The persistence of post-operative pain represents a problem which can lead to chronic pain in over 20% of patients, even after many years.

I-ONE[®] TPC

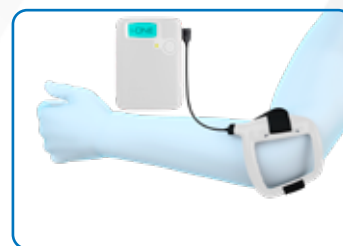
- Inhibits the inflammatory process of the periarticular tissues.
- Effectively controls pain and prevents it from becoming chronic.
- Promotes full functional recovery, maintaining the result over time.

Reverse shoulder arthroplasty



Clinical indications

- KNEE AND SHOULDER ARTHROPLASTY
- ACL RECONSTRUCTION
- MENISCECTOMY
- MICROFRACTURES
- MACI
- TECHNIQUES OF REGENERATIVE MEDICINE



Daily treatment time: 4 hours. Treatment duration: 60 days. The therapy can be repeated.

References

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This folder refers to the medical device ref.CBA-03, Series I-ONE.

The device complies with the Medical Device Directive 93/42/EEC and its revised version. The device is marked 0051.

The device complies with the standard IEC 60601-1 - for the basic safety and essential performance of Medical electrical equipment.

The device complies with the standard IEC 60601-1-11 for the Medical electrical equipment used in the home healthcare environment.